

Figure 1

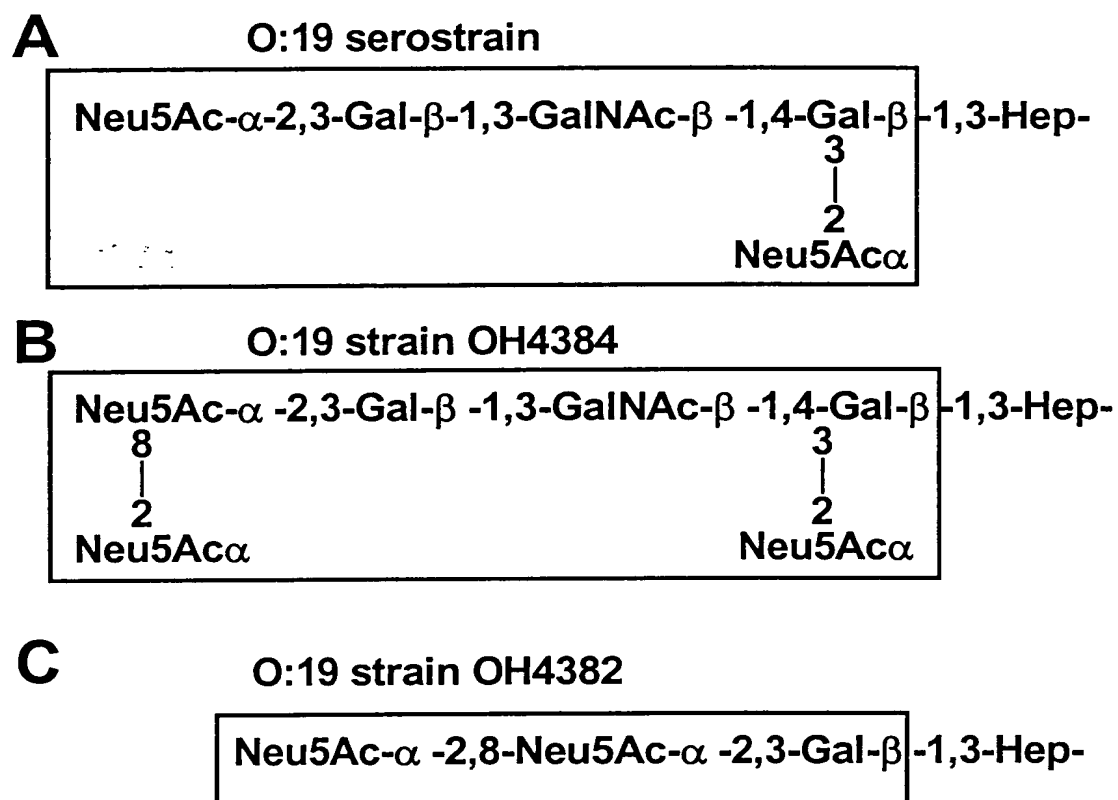
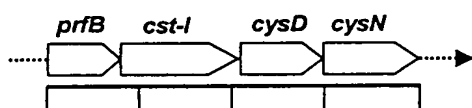


Figure 2

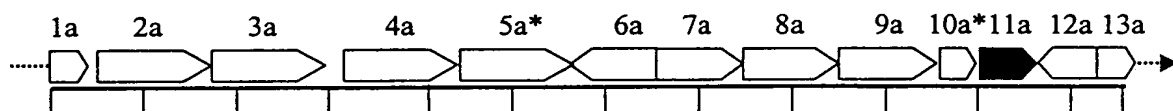
A

OH4384 *cst-I* locus (3.92 kb)



B

OH4382/OH4384 LOS biosynthesis locus (11.47 kb)



NCTC 11168 LOS biosynthesis locus (13.48 kb)

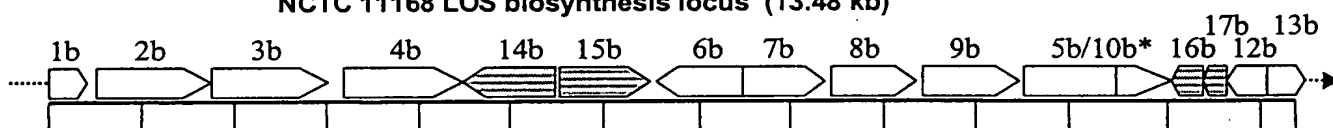


Figure 3

OH4384		-----MKKVIIAGNGPSLKEIDYSRLPNDFDVFRCNQFYFEDKYILGKKC	45
O:19		-----MKKVIIAGNGPSLKEIDYSRLPNDFDVFRCNQFYFEDKYILGKKC	45
Cst-I		MTRTRMENELIVSKNMQNI I IAGNGPSLKNINIKRPLREYDVFRCNQFYFEDKYILGKCI	60
11168		-----MSMNINALVCGNGPSLKNIDYKRLPKQFDVFRCNQFYFEDRYFVGKDV	48
Hi_ORF		----- ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^	
OH4384		KAVFYNPILFFEQYYTLKHLIQNQEYETELIMCSNYNQAHLNENFVKTFDYDFPAHGLG	105
O:19		KAVFYTPNFFFEQYYTLKHLIQNQEYETELIMCSNYNQAHLNENFVKTFDYDFPAHGLG	105
Cst-I		KAVFFNPGVFLQQYHTAKQLILKNEYEIKNIFCSTFNLPFIESNDFLHQFYNFPPDAKLG	120
11168		KYVFFNPFVFFEQYYTSKKLIQNEEYNIEINVCTINLEYIDGFQFVDNFELYFSDAFLG	108
Hi_ORF		-----MQLIKNNEYEYADIILSSFVNLDGSELKKIKNVQKLLTQVDIG ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^	43
OH4384		YDFFKQLKDFNAYFKFHBIYFNQRITSGVYMCAVAIALGYKEIYLSGIDFYQN-GSSYAF	164
O:19		YDFFKQLKEFNAYFKFHBIYFNQRITSGVYMCAVAIALGYKEIYLSGIDFYQN-GSSYAF	164
Cst-I		YEVIENLKEFYAIKYNEIYFNKRITSGVYMCAIAIALGYKTIYLCGIDFYEG-DVIYPF	179
11168		HEIIKKLKDFPAYIKYNEIYNRRITSGVYMCAVALGYKSIYISGIDFYQDTNNLYAF	168
Hi_ORF		HYYLNKLPAFDAYLQYNELYENKRITSGVYMCAVATVMGYKDLYLTGIDFYQEKGNPYAF * ^ * * ^ * ^ ^ ***** ^ * ^ * ^ * ^ ^ * ^ ^ * ^ ^ * ^ *	103
OH4384		DTKQKNLLKLAPNFKNDSHYIGHSKNTDIKALEFLEKTYKI KLYCLCPNSLLANFIELD	224
O:19		DTKQENLLKLAPDFKNDRSHYIGHSKNTDIKALEFLEKTYKI KLYCLCPNSLLANFIELD	224
Cst-I		EAMSTNIKTIFPGIK-DFKPNCHSKEYDIEALKLLKSIYKVNIYALCDDSI LANHFPLS	238
11168		DNNKNLLNKCTGFKNQKFPSINHSMACDLQALDYLMKRYDVNIYSLNSD----EYFKLA	224
Hi_ORF		HHQKENI IKLLPSFSQNSQSIDIHSMEYDLNALYFLQKHGVNIYCISPESPLCNYFPPLS * ^ ^ ^ ** * * * ^ * * ^ ^ ^ ^ *	163
OH4384		PNLN-SNFIIQEK-NNYTKDILIPSEAYGKFSKN-----INFKKIK-IKENIYYK	272
O:19		PNLN-SNFIIQEK-NNYTKDILIPSEAYGKFSKN-----INFKKIK-IKENVYYK	272
Cst-I		ININ-NNFTLENKHNSINDILLTDNTPGVSYKNQLKADNKIMLNIFYNILHSDKNLIK	297
11168		PDIG-SDFVLSSKKPKKYINDILIPDKYAQERYYGK-----KSR-LKENLHYK	269
Hi_ORF		PLNNPITFILEEK-KNYTQDILIPPKFVYKKIGIYS-----KPR-IYONLIFR ^ ^ * * ^^ ***^^ ^ ^ *	209
OH4384		LKDLLRLPSDIKHYPFGK-----	291
O:19		LKDLLRLPSDIKHYPFGK-----	291
Cst-I		LNKEIAVLKKQTQRAKARIQNHLS	322
11168		LKDLIRLPSDIKHYLEKEYANKNR	294
Hi_ORF		LIWDILRLPNDIKHALKSARKWD--- * ^ ^ ^ ^ ^ ^ ^ *	231

Figure 4

